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(54) Title: RNA INTERFERENCE MEDIATED INHIBITION OF CYCLIN D1 GENE EXPRESSION USING SHORT INTERFERING NUCLEIC ACID (SINA)

(57) Abstract: The present invention concerns methods and reagents useful in modulating cyclin (e.g., cyclin D1) gene expression in a variety of applications, including use in therapeutic, diagnostic, target validation, and genomic discovery applications. Specifically, the invention relates to small nucleic acid molecules, such as short interfering nucleic acid (siNA), short interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA), and short hairpin RNA (shRNA) molecules capable of mediating RNA interference (RNAi) against cyclin D1 gene expression. The molecules are useful in the treatment of cancer.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/03662

A. CLASSIFICATION OF SUBJECT MATTER

IPC(3) : C07H 21/04
US CL : 536/23.1, 24.3, 24.33, 24.5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.1, 24.3, 24.33, 24.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 200161030 A2 (BOLLON et al) 23 August 2001 (23.08.2001), page 4, lines 12-23.	1-32
A	WO 9906540 A2 (MITOTOX) 11 February 1999 (11.02.1999), page 11, lines 22-26.	1-32
A	WO 00-44895 A1 (KREUTZER et al) 03 August 2000 (03.08.2000), see abstract.	1-32

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
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"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

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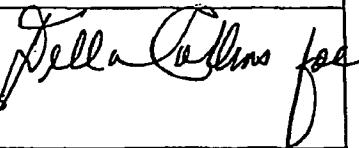
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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

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